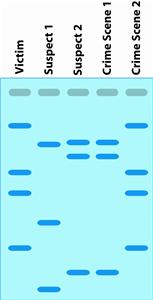
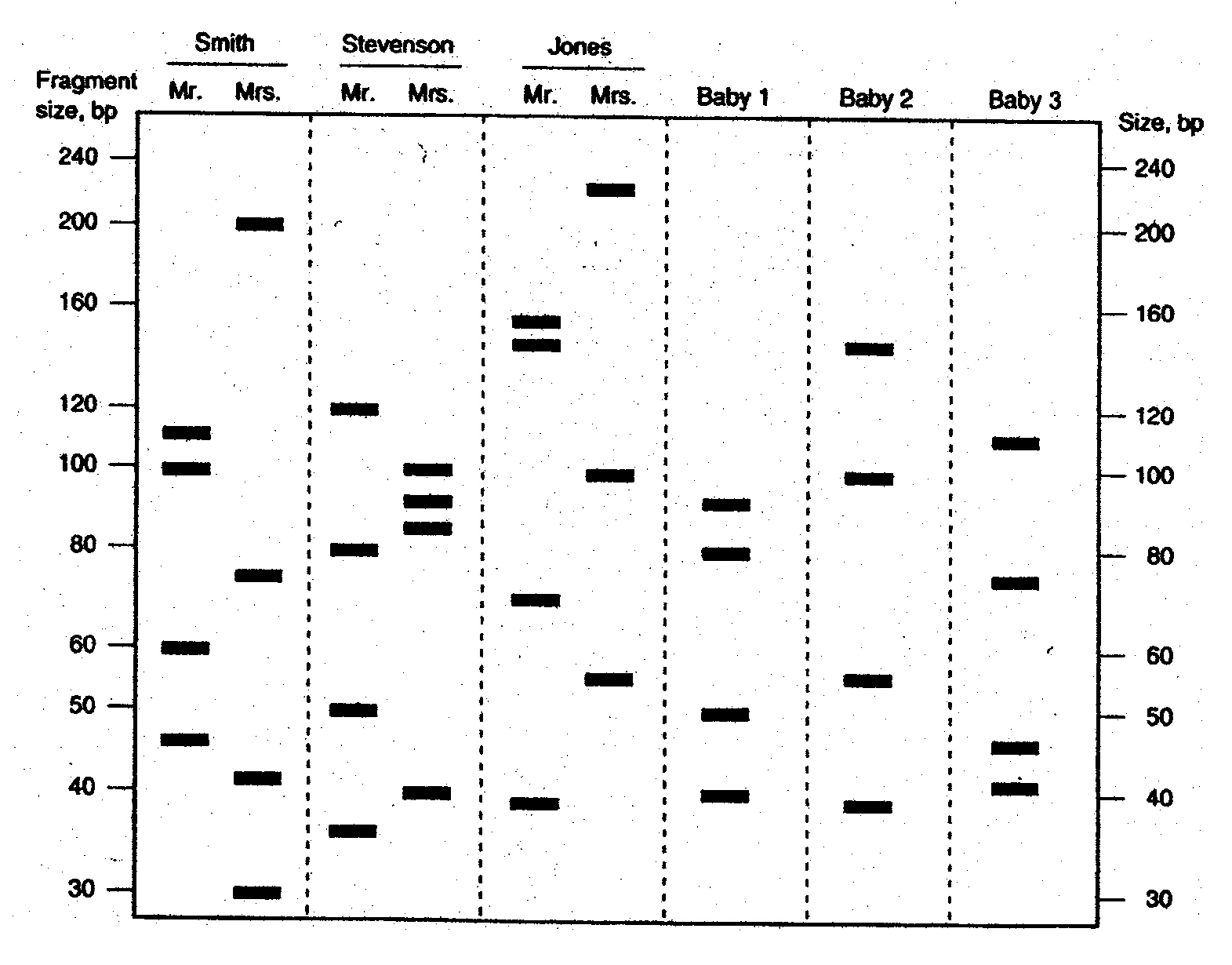
Week 32 Bio Warmups



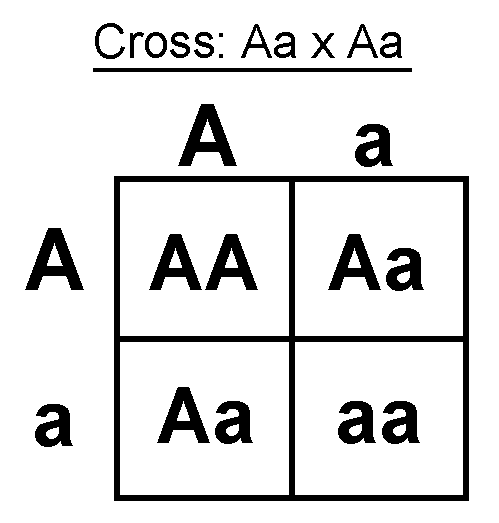
1. Whose DNA was found at crime scene 1?
2. Whose DNA was found at crime scene 2?
3. The process that produced the diagram to the right is \_\_\_.
   1. Polymerase chain reaction
   2. Gel electrophoresis
   3. Restriction enzymes
   4. None of the above

Match each baby with its parents using the DNA profiles shown at right. (Note: all of a baby’s segments must match up with either the father or the mother)

Match each definition with the correct term.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | genetic makeup of an organism | a. | phenotype |
| 2. | alleles that are always expressed and hide the expression of other alleles | b. | genotype |
| 3. | alleles that are hidden by another allele | c. | dominant |
| 4. | different forms of a gene | d. | recessive |
| 5. | physical characteristics of an organism | e. | allele |

Identify each term as a phenotype or a genotype. If it is a genotype, identify it as heterozygous, homozygous dominant, or homozygous recessive.

1. Freckles
2. Blue eyes
3. ff
4. Pp
5. Tall
6. TT
7. What type of cross is this: monohybrid or dihybrid?
8. What is the ratio of dominant phenotype to recessive phenotype?
9. If A = orange and a = green, what color are the parents?
10. What is the probability that this pair of parents will have a green baby?
11. What is the probability that these parents will have a baby that is heterozygous?